Appendix B – Definitions

Word	Definition
Acceptance Inspection	Inspection performed at the time an aircraft changes physical or reporting custody. Includes as a minimum, logs and records review, NAMIS baseline data entry, configuration verification to include any one-time inspections/replacements issued by NASA, and the equivalent of a preflight inspection. NASA may elect to increase inspection depth if the aircraft material condition or record examination indicates such actions are warranted.
Airworthy	The aircraft conforms to its type design and is in a condition for safe operation.
Airworthiness Review	A non-advocate peer review meant to ensure readiness for delivery of the system, end items and documentation. The AOD Chief is the final approval of airworthiness.
Alteration	A change that does not affect the basic character or structure of the end item it is applied to. It limits, qualifies or restricts an end item to a new purpose or end.
Audit	A periodic evaluation of detailed plans, policies, procedures, products, and data.
Avionics	Includes electronic, electrical, instruments, communication and navigation equipment and their subsystems taken either as independent equipment, or integrated systems to accomplish the mission.
Awaiting Parts	The condition that exists when materials are required to complete the maintenance action and these materials are not readily available; work cannot be performed on the item being repaired due to lack of ordered parts.
Beyond the Capability of Maintenance	A term/code used by the intermediate and/or depot level support shops when a repair is not authorized at that level or when a maintenance activity is not capable of being accomplished due to lack of equipment, facilities, technical skills, technical data, or parts.

Word	Definition
Bits and Pieces	Items that are normally treated as one piece of hardware, or are physically constructed of two or more pieces joined together in a way that prevents disassembly without destruction or impairment of the designed use. Examples of such items are
	nuts, screws, gaskets, seals, bearings, brushes, gears, fuses, light bulbs, tubes, capacitors, and resistors.
Certificated Aircraft	An aircraft certified for flight by the FAA, not a public use aircraft. Also see Type Certificated.
Combined, Preflight and Post-Flight Inspection	An inspection that encompasses the full scope of a pre-flight and post-flight inspection and is accomplished at the same time to satisfy both requirements.
Conditional Acceptance	The acceptance of supplies or services that do not conform to contract quality requirements, or are otherwise incomplete, that the contractor is required to correct or otherwise complete by a specific date.
Configuration	The functional and/or physical characteristics of hardware and software as set forth in technical documentation and achieved in a product.
Configuration Control	The procedures necessary to control the form, fit, and function of components, sub-systems, and systems.
Configuration Item	The term can be applied to anything designated for the elements of configuration management and treated as a single entity in the configuration management system. The entity must be uniquely identified so that it can be distinguished from all other configuration items.
Configuration Management System	A unique identification, controlled storage, change control, and status reporting of selected intermediate work products, product components, and products during the life of a system. The objective of this system is to avoid the introduction of errors related to incompatibilities with other configuration items.
Configuration Control Panel	A group of knowledgeable representatives that represent a cross-section of the organization (management, engineering, operations, safety, maintenance and quality) established to review and approve or disapprove configuration changes in the baseline configuration of an aircraft or asset.
Continual Improvement	An on-going effort to improve products, services or processes to increase the effectiveness and/or efficiency of an organization to fulfill its policy and objectives.

Word	Definition
Contract Quality Requirements	The technical requirements in the contract relating
	to the quality of product or service and those
	contract clauses prescribing inspection, and other
	quality controls incumbent on the contractor, to
	assure that the product or service conforms to the
	contractual requirements.
Contracting Officer	A person with the authority to enter into
	(purchase), administer or terminate contracts and
C + C OCC 2 D	make related determinations and findings.
Contracting Officer's Representative	A representative designated by the CO who
	performs primarily technical functions such as
	providing technical direction, inspection, approval
	of drawings, testing, and other functions or a technical or administrative nature not involving a
	change in the scope, price, terms or conditions of
	the contract.
Controlled Equipment	All non-sensitive equipment with an acquisition
Controlled Equipment	cost of \$5,000 or more and an estimated service
	life with two years or more, which will not be
	consumed or expended in an experiment. Also
	selected items of property with an acquisition cost
	less than \$5,000 that are designated and identified
	as sensitive, by the holding Center, such as
	weapons and certain types of hazardous devices.
Corrective Actions	Improvements to an organization's processes
	taken to eliminate causes of non-conformities or
	other undesirable situations to prevent their
	recurrence.
Customer-Supplied Product	Products, such as payloads and flight equipment,
	owned by NASA or another contractor for the
	purpose of flight processing, testing, storage,
D. D. d./D. a D. d. M. at'r	analysis, modification, and/or fabrication.
De-Dock/Post Dock Meeting	A formal meeting between NASA representatives
	and the Contractor for the purpose of identifying all maintenance requirements that were
	accomplished during the phase/major
	calendar/hourly inspection or depot work. Refer
	to AOD WI 34100 for additional information on
	these type meetings.
Deployment	The temporary relocation of an aircraft, support
Берюуния	personnel, and equipment from JSC, AOD,
	Ellington Field, or AOD FOL, to other CONUS or
	OCONUS locations in support of AOD missions.
	Deployment does not apply to dispatching
	personnel to repair a NMCM aircraft away from
	EFD.
Depot	The facility where depot level maintenance is
	accomplished.

Word	Definition
Depot Level Maintenance	Maintenance accomplished on aircraft or
("D" Level)	equipment requiring major rework or a complete
	rebuild of parts, assemblies, sub-assemblies and
	end items, including manufacture, alteration,
	testing and reclamation of parts as required. D-
	level maintenance is normally accomplished by
	personnel of higher technical skills and in
	facilities with more extensive shop facilities and
	equipment than available at the O and I level
Disamonari	maintenance activities. A non-standard condition that is noted when
Discrepancy	operating or maintaining an aircraft/equipment
	that requires corrective action to restore the
	aircraft/equipment to normal operating
	conditions/parameters contained in approved
	technical data.
Due in for Maintenance	A system to track the status and location of
	repairable aircraft assets to be returned from
	repair/overhaul either at field level or depot level
	maintenance activities.
Engineering Data Management	The administration of documents or data related to
	engineering applications using computers and
	electronic storage media.
Engineering Project	A defined, bounded activity requiring engineering
	support.
Engineering Work Order	The Engineering Work Order (EWO), AOD Form
	14, authorizes work on Johnson Space Center
	(JSC) aircraft and aircraft-related equipment. It
	provides detailed instructions, establishes a
	method of work control, collects historical
	records, and facilitates inspection. The EWO
	serves to combine documentation of change, test,
	fabrication, and repair into a single multi-use document. The EWO is required to initiate a
	configuration change (temporary or permanent) to
	any JSC aircraft, conduct tests where collection of
	engineering data is necessary, fabricate items for
	use on aircraft and support systems, develop
	software change/test instructions, or repair aircraft
	(refer to Material Review Board) where published
	technical information is not available.
Estimated Time-In Commission	Estimated date/time aircraft scheduled or
	unscheduled maintenance actions will be
	completed to restore the aircraft or end item to a
	full mission capable status. Refer to AOD WI
	34100, Table 1, Not Mission Capable
	Maintenance for information on ETIC
	establishment.

Word	Definition
Familiar	Having a working knowledge for the area
	identified. Familiarization is normally achieved
	from prior military/commercial experience,
	formal class-room or on-the-job-training.
Failure Mode Effects and Criticality Analysis	Methodologies designed to identify potential
	failure modes for a product or process, to assess
	the risk associated with those failure modes, to rank the issues in terms of importance and to
	identify and carry out corrective actions to address
	the most serious concerns.
Fleet Modification Instructions	A document describing a modification to be
	incorporated on an entire aircraft fleet, group of
	aircraft, or a major system.
Flight Readiness Review	A thorough, impartial review by NASA
	Management and the support contractor to certify
	an aircraft is safe to fly its intended mission
	following completion of major structure repairs,
	modifications and/or alterations. Refer to AOD
	WI 33840 for additional information concerning
Farmand On austing Laustian	Flight Readiness Reviews. A facility other than Ellington Field, operated by
Forward Operating Location	the Johnson Space Center, where maintenance and
	operations of JSC aircraft are performed
Functional Check	The functional check and operation of an end-item
T unitional Chief.	on the aircraft or in the support shops, using
	equipment, procedures, and limits in approved
	technical data. NASA components requiring
	Functional Checks are contained in CC-WD-F1
	work cards located in the AOD Library.
Functional Check Flight	A flight to determine whether the airframe, power
	plants, accessories and equipment are functioning
	per predetermined standards while subjected to
	the intended operating environment. Refer to
	AOD WI 34100 for aircraft specific maintenance actions that generate FCF requirements.
Government Industry Data Exchange Program	A cooperative activity between the Government
(GIDEP)	and industry participants seeking to reduce or
(GIDEI)	eliminate expenditures of resources by sharing
	technical information essential during research,
	design, development, production and operational
	phases of the life cycle of systems, facilities and
	equipment.
Government Contract Quality Assurance	The various functions, including inspection,
	performed the Government to determine whether
	a contractor has fulfilled the contract obligations
	pertaining to quality and quantity.

Word	Definition
Ground Support Equipment	Powered or Non-Powered Support Equipment
	used to support maintenance in the servicing,
	repair, operation, removal/installation of
	equipment or test of aircraft and its related
	systems. Ground support equipment also includes
	Metrology and Calibration Equipment such as
	calibrated tools, test sets and other calibrated
	equipment that involves the use of approved
	instrument calibration procedures.
Hazard	Any real or potential condition that can cause
	injury or death to personnel, or damage to, or loss
	of equipment or property. This hazard may be a
	result of personnel error, environment, design
	characteristics, procedural differences, or sub-
	systems or component failure or malfunction.
Human Factors	Recognition that personnel performing tasks are
	affected by physical fitness, physiological
	characteristics, personality, stress, fatigue,
	distraction, communication and attitude.
Information Technology	Set of tools, processes, and methodologies (such
	as coding/programming, data communications,
	data conversion, storage and retrieval, systems
	analysis and design, systems control) and
	associated equipment employed to collect,
	process, and present information.
Inspection	The examination and testing of aircraft, engines,
	supplies and services, including raw materials,
	components, and intermediate assemblies, to
	determine whether they conform to specified
	requirements.
Intermediate Maintenance	Maintenance which is the responsibility of, and is
("I" Level)	performed by designated maintenance activities
	for direct support of organizational maintenance
	activities. It includes, but is not limited to
	calibration, repair or replacement of damaged or
	unserviceable parts, components or assemblies,
MCC F 1 P 1	and the local fabrication of non-available parts.
JSC Expected Behaviors	A set of supporting behaviors for JSC contractors
	and civil servants that encompass the values of
	Safety, Teamwork and Integrity in support of
Var Chanataristics	Mission Success.
Key Characteristics	The features of a material, process, or part whose
	variation has a significant influence of product fit,
Life Limited Comments	performance, service life or manufacturability.
Life-Limited Component	Any component for which mandatory
	replacements limit (calendar, hourly, cycles or
	events) are specified in the type design, the
	Instructions for Continued Airworthiness, or
	approved maintenance manual.

Word	Definition
Maintenance	The function of retaining material in, or restoring
	it to, a serviceable condition. It includes
	servicing, inspecting, replacement, alterations, or
	defect rectification of an aircraft or an aircraft
	component that is performed after completion of
Maintenance Directive	manufacturing.
Maintenance Directive	Maintenance Directives (MD) apply to all AOD aircraft and aircraft-related systems. An MD
	refers to airworthiness directives, service changes,
	customer bulletins, service bulletins, engine
	bulletins, airframe bulletins, and airframe changes
	that are received from aircraft or component
	manufacturers, the FAA, and the DOD and to
	NASA locally-generated one-time inspections and
	one-time replacements. Approval to comply with
	or not comply with an MD will be via the AOD
	Form 1298; Maintenance Directive Tracking Form.
Material Review Board (MRB)	A Material Review Board, refer to Engineering
Material Review Board (MRB)	Work Order, provides technical repair instructions
	when no other technical data is available or the
	existing technical publications, engineering
	drawings, or procedures are inadequate (does not
	apply to FAA certified aircraft).
May	This verb is used for stating non-mandatory goals
Monitoring	(also refer to Should). The supervising of activities in progress to ensure
Monitoring	they are on-course and on-schedule in meeting the
	objectives and performance goals.
Mission Management Aircraft	Those administrative aircraft certified by the
	Federal Aviation Administration and used
	primarily for passenger transport. These include
	aircraft used to transport management and staff
	personnel on official travel for the purpose of
	satisfying mission requirements or other travel for
NASA Aircraft Management Information System	the conduct of agency business.
NASA Aircraft Management Information System (NAMIS)	A Government provided automated database that provides an integrated system to support
(IVAIVIIS)	operations, maintenance and logistics
	requirements to enhance overall safety,
	organizational effectiveness and reduce program
	and organization costs.
Non-conformance	A condition of product or service in which any
	characteristics do not conform to specifications
	required and/or stated. This may include failures,
	deficiencies, defects, malfunctions and the like.

Word	Definition
Operational Check Flight	An in-flight check of lesser severity than a
	functional check flight that is flown to determine
	whether selected aircraft systems operate per
	predetermined standards while subjected to the
	intended operating environment. Refer to AOD
	WI 34100 for aircraft specific maintenance
	actions that generate OPS Check Flight
	requirements.
Organizational Maintenance	Maintenance (scheduled or unscheduled which is
("O" Level)	the responsibility of, and is performed by, a using
	organization on its assigned equipment. It
	includes, but is not limited to inspecting
	(conditional, special, phase, calendar, cyclic,
	before/after flight, acceptance or transfer)
	servicing, lubricating, adjusting, replacing line
	replaceable units, mechanical accessories,
	electrical/hydraulic and minor assemblies and
The Art of	sub-assemblies.
Phase Inspection	A series of related inspections performed
	sequentially at specific intervals. These
	inspections are the result of dividing the
	maintenance requirements into small packages
Deat Elight Inspection	containing approximately the same workload.
Post-Flight Inspection	An inspection conducted after each flight to detect
	degradation or damage that may have occurred during the flight and to determine the need for
	servicing.
Pre-Dock Meeting	A formal meeting between NASA and the support
1 to-Dock Weeting	contractor prior to the input of an aircraft into
	scheduled phase/major calendar/hourly
	inspections or depot work to identify all
	maintenance requirements that will be
	accomplished during these type inspections.
	Refer to AOD WI 34100 for additional
	information regarding Pre-dock Meetings.
Preflight Inspection	The final inspection conducted prior to the first
	flight of each flight day to ensure the aircraft is
	safe for flight and to verify proper servicing.
Preventive Maintenance	Systematic inspection, detection, correction, and
	prevention of early failures, before they become
	actual or major failures.
Process Control	Activities involved in ensuring a process is
	predictable, stable and consistently operating at
	the target level of performance with only normal
	variations.
Product Identification and Traceability	The ability to identify a product from applicable
	drawings, specifications, or other documents,
	during all stages of production, delivery, and
	installation.

Word	Definition
Program Support Aircraft	Aircraft used to support programs and mission operations. This includes, but is not limited to, astronaut training, safety chase, photo chase, cargo transport, flight training, range surveillance, launch security, and command and control.
Project Aircraft	An aircraft with a problem that cannot be solved with normal maintenance technical data, requiring engineering assistance. Specific anomalies will also cause an aircraft to become a project. Refer to AOD WI 33820 for additional information on Project Aircraft.
Project Engine	An engine with a problem that cannot be solved with normal maintenance technical data, requiring engineering assistance. Specific anomalies will also cause an engine to become a project. Refer to AOD WI 33820 for additional information on Project Engine.
Property, Plant and Equipment System	An agency-wide tool/system used throughout the agency to identify, control and account for Government-owned equipment acquired by or in use by NASA and its Contractors.
Public Use Aircraft	An aircraft operated by or on behalf of the Government.
Qualifications	Training or competencies, which provide an individual the necessary skills, knowledge, or credentials to perform a specific function. These qualifications are normally achieved from prior military/commercial experience, formal classroom or on-the-job-training.
Quality Management System (QMS)	A system by which an organization aims to reduce and eventually eliminate non-conformances to specifications, standards, and customer expectations in the most effective and efficient manner.
Receiving Inspection	An inspection to verify that purchased products conform to specified purchase requirements. Verification activities may include obtaining objective evidence of the quality of the product from suppliers to include accompanying documentation, certificate of conformity, test reports, statistical records and establishment of process controls to ensure key characteristics have been met.
Risk Management	The process of identifying, analyzing, communicating and management of organizational risk.

Word	Definition
Scheduled Maintenance	Known or predictable maintenance requirements
	based on calendar, hourly, events, or cycles, that
	can be planned or programmed for
	accomplishment on short and long-range
	schedules. This includes accomplishing recurring
	scheduled maintenance inspection and servicing,
	complying with configuration items,
	accomplishing scheduled time change item
	replacements, and correcting delayed or deferred discrepancies. It also includes modification and
	renovation projects that are programmed for
	depot.
Service Bulletin	A document which directs a one-time inspection
	of an in-service aircraft, system, sub-assemblies,
	components or piece of support equipment. These
	documents are normally issued by Federal
	Aviation Authority (FAA) or DoD.
Service Change	A document which directs and provides
	instructions for the accomplishment of a change,
	modification, repositioning or alteration of
	material in an in-service aircraft, system, sub- assemblies, components or piece of support
	equipment from its original design. These
	documents are normally issued by Federal
	Aviation Authority (FAA) or DoD.
Sensitive Equipment and Parts	An item of equipment that, due to its pilferable
	nature or the possibility of it being a hazard,
	requires a stringent degree of control. A sensitive
	item can be capital or non-capital. Generally,
	sensitive items are controlled at an acquisition
	cost of \$500 or more.
Serviceable Condition	The condition of an item that is capable of
	performing its purpose and function to the
Servicing	requirements for which it is originally intended. The replenishing of all fluids, fuel, oil, water
Servicing	methanol, as well as cleaning the aircraft exterior
	and interior, cleaning food dispensing equipment,
	ice chests, coffee pots, hot cups, chemical toilets,
	as required. This may also include storage of
	meals on the aircraft.
Shall	This is the only verb for binding requirements.
Should	This verb is used for stating non-mandatory goals
Committee	(also refer to May).
Surveillance	The quality practice of on-going monitoring and
	verification of the status of conditions, methods, procedures and products, and analysis of
	associated records to ensure that the established
	requirements are being complied with.
	requirements are being complica with.

Word	Definition
Technical Data	Data that is necessary to ensure that the aircraft
	and related systems can be maintained in a
	condition such that serviceability and
	airworthiness of the aircraft and related
	operational and emergency equipment, is assured.
	This data includes computerized maintenance
	program (CMP) cards, NASA/Department of
	Defense (DoD) technical orders and work cards,
	manufacturer's maintenance manuals, Aircraft
	Operations Division (AOD) unique work
	instructions (WIs), engineering work orders
	(EWOs), fleet modification instructions (FMIs),
	engineering drawings, test procedure – flight
	research project (TP-FRP) instructions, Federal
	Aviation Authority (FAA)-approved original
	equipment manufacturer (OEM) standards,
	aircraft change directives (ACDs) (e.g.
	airworthiness directives, service bulletins, etc) and
T (D 1 Fill t) 1 D 1	any other subscriptions, data, and specifications.
Test Procedure-Flight Research Project	An approved, repetitive inspection or test on
	NASA aircraft, components or ground support
Test Readiness Review	equipment. A thorough, impartial review by NASA
Test Readilless Review	Management and the support contractor to certify
	an aircraft is safe to fly its intended mission
	following completion of major structure repairs,
	modifications and/or alterations. A TRR can be
	held for payloads/experiments that are conducted
	within the confines of the aircraft including minor
	protrusions outside of the aircraft that do not
	affect drag. Refer to AOD WI 33840 for
	additional information concerning Test Readiness
	Reviews.
Through-Flight Inspection	An inspection conducted on an aircraft between
	flights flown on the same day to ensure the
	integrity of the aircraft for flight, verify proper
	servicing, and to detect any degradation that may
	have occurred during the previous flight.
Training	The process of providing knowledge and skills to
	individuals to better enable them to perform their
	current duties or future duties. Training may
	include job-specific training such as a series of
	instructions or proficiency demonstrations leading
	to a qualification.

Word	Definition
Transfer Inspection	Inspection performed at the time an aircraft
•	changes physical or reporting custody. Includes
	as a minimum, logs and records review, NAMIS
	data storage, and the equivalent of a preflight
	inspection. NASA may elect to increase
	inspection depth if the aircraft material condition
	or record examination indicates such actions are
	warranted.
Troubleshooting	The logical, analytical, and where applicable, an
	approved technical order prescribed procedure
	followed in isolating aircraft/equipment
	malfunctions.
Type Certificated	Aircraft with FAA airworthiness certificates.
Unscheduled Maintenance	Unpredictable maintenance requirements,
	maintenance not previously planned or
	programmed, maintenance requiring prompt
	attention and must be added to, integrated with, or
	substituted for previously scheduled workloads.
	This includes, but is not limited to, compliance
	with immediate action aircraft change directives,
	correction of discrepancies discovered during
	flight or operation of equipment, and performance
	of repairs as a result of accidents or incidents.
Will	This verb is used for stating facts or declaration of
	purpose.
Work Instruction	A document that describes how to accomplish
	specific job activities needed to ensure consistent
	working methods and achieve the required quality
	standard.